

Calcineurin-Related Transgenic Mammals, Compositions andMethodsAbstract of the Disclosure

The present invention provides a transgenic nonhuman mammal  
 5 and mammalian cells whose genomes encode a calcineurin  
 inhibitor. The expression of the inhibitor is targeted to  
 the forebrain and may be induced experimentally. The present  
 invention further provides a composition of matter comprising  
 the nucleic acid sequences encoding the inhibitor and  
 10 additional sequences required for its targeted expression and  
 regulation. In addition, the present invention provides  
 methods for determining whether an agent inhibits long-term  
 potentiation and/or learning and memory in a mammal.